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6 October 1959

MEMORANDUM FOR: Mr. W. R. Lampshire, SRS/DPD-DD/P

SUBJECT: Telemetry Receiver for Discussion at the New
Techniques Committee

1. The following excerpt is from the magazine "Missiles and
Rockets", 24 August 1959:

"Predetection recording -- One of the most significant
advancements in telemetry reception is that of predetection
recording. This technique, first used in the reception of
radar signals from Voms by Lincoln Lab's Millstone antenna,
offers great promise in higher reliability of telemetered
signals. Receiver input is picked off just ahead of the detec-
tion stage, tape recorded then later demodulated.

"The advantage here is in the possibility of applying
advanced demodulation techniques to periods in which data
are lost due to poor signal - to - noise ratio of interference.
Future improvements in this technique are expected to
significantly advance long-range telemetry.

"Radiation, Inc., has designed and built models of a
2200 mc 'state-of-the-art' receiver which provide this feature.
Production of commercial models is contemplated."

2. This type of receiver could possibly be used either on the
ground or in an airborne platform and will be investigated for possible
use as an ELINT telemetry receiver.

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ELINT Staff Officer

25 YEAR RE-REVIEW

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